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imagery analysis report

**SA-6 GAINFUL Missile Identified on
SA-11 TELAR at Leninakan, USSR (S)**

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SA-6 GAINFUL MISSILE IDENTIFIED ON SA-11 TELAR AT LENINAKAN, USSR (S)

1. (S/D) On imagery of [] an SA-6 GAINFUL missile was observed on a three-missile SA-11 transporter-erector-launcher and radar (TELAR) at Leninakan Army Barracks North AL-3 [] in the USSR (Figures 1 and 2). The barracks houses an SA-6/-11 regiment and is in the Transcaucasus Military District. This was the first confirmation of the use of an SA-6 missile on a deployed three-missile SA-11 TELAR (Figure 3). While the use of an SA-11 missile on a deployed three-missile TELAR remains possible, a full complement of SA-6 missiles in an SA-6/-11 regiment would greatly reduce logistical problems.

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2. (S/D) The SA-11 TELAR with the SA-6 missile was observed as a part of an SA-6/-11 battery in training at the SA-6/-11 training site adjacent to the Leninakan Barracks. The remainder of the regiment was observed preparing to depart garrison with three batteries in convoy formation inside the barracks area and a fourth battery on flatcars at the Leninakan railyard.

3. (S/D) It is believed that the SA-11 system is being developed along two separate lines and deployed in two distinct phases. One design line resulted in an interim enhancement of the older SA-6 GAINFUL missile system, and the other is expected to produce an improved follow-on to replace the SA-6 system. The initial phase of deployment, observed at Leninakan and Sary-Ozek Army Barracks AL-1/Headquarters Motorized Rifle Division [] used only the three-missile SA-11 TELAR probably with the SA-6 GAINFUL missile, the STRAIGHT FLUSH tracking and guidance radar, and existing SA-6 support equipment and acquisition radars. In the later phase, the four-missile SA-11 TELAR, the SA-11 missile, the EM-EL-03 acquisition radar, and unique support equipment designed for the SA-11 system is expected to be deployed to form a pure SA-11 regiment. The identification of an SA-6 GAINFUL missile on the three-missile SA-11 TELAR at Leninakan supports this analysis.¹

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REFERENCE**DOCUMENT**

1. NPIC, [] IAR-0032/80, *SA-11 Tactical Defensive SAM System Test Program*, Emba Missile Test Center, USSR (TSR), Mar 80 (TOP SECRET [])

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(S) Comments and queries regarding this report are welcome. They may be directed to []

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[] Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC, []

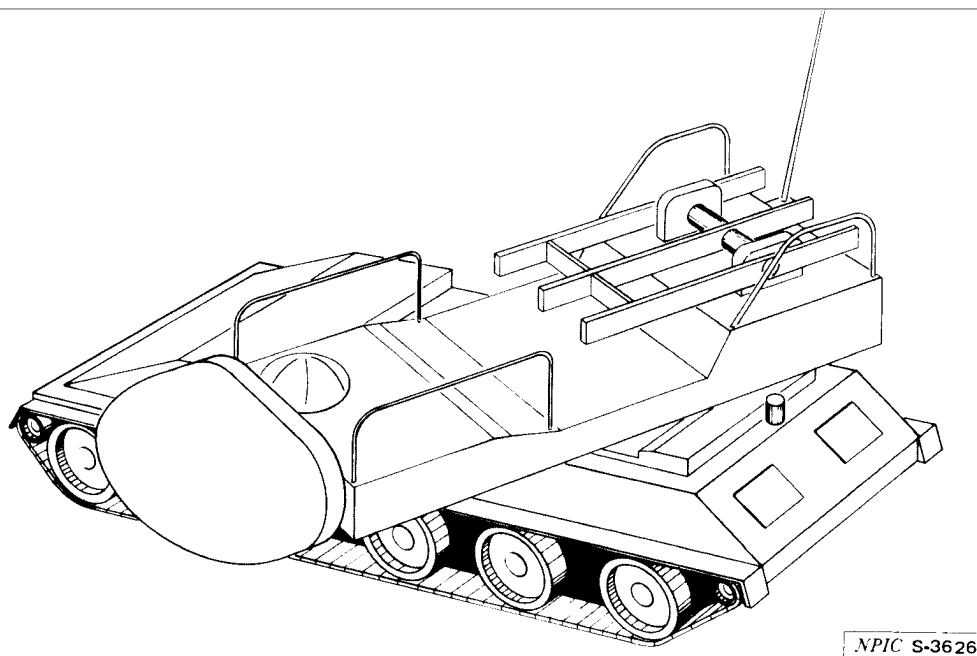
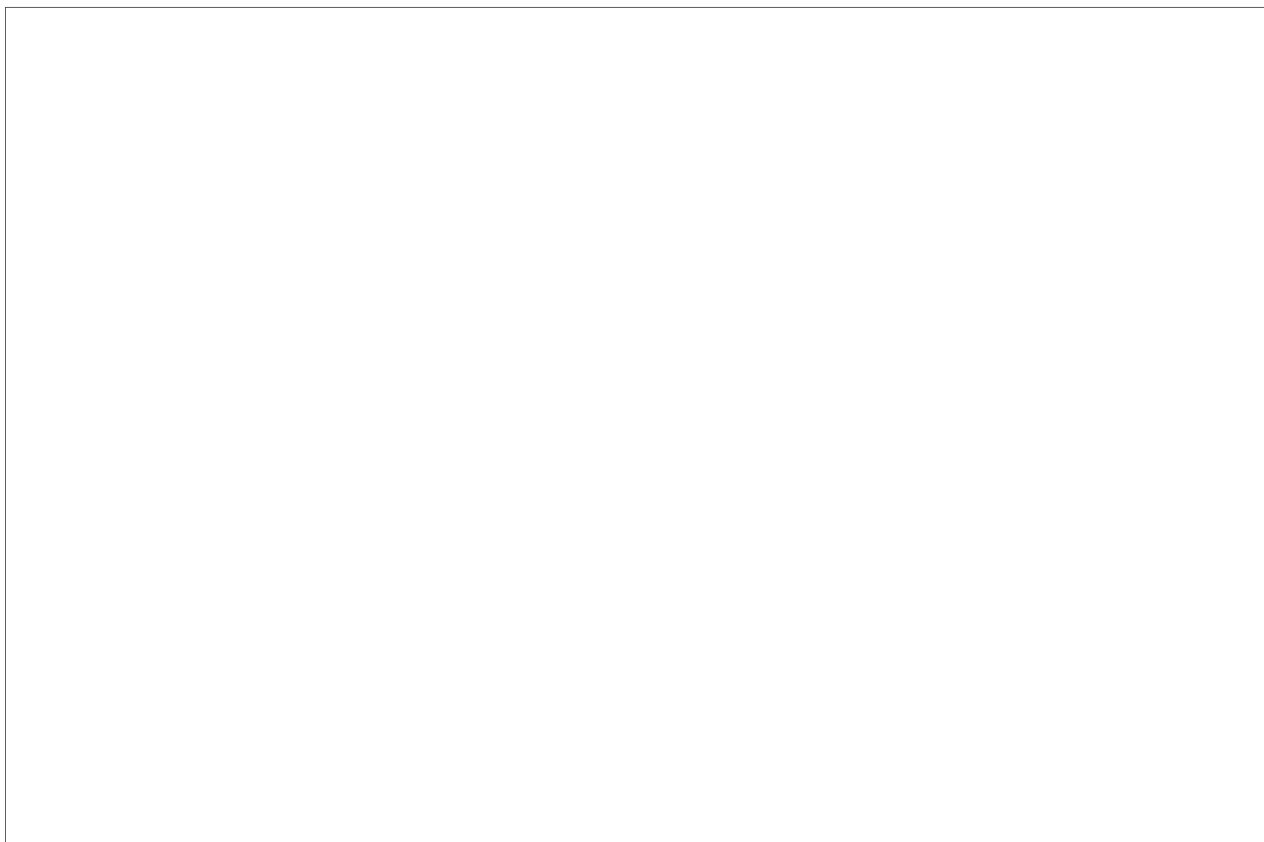
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FIGURE 3. CONCEPTUAL DRAWING OF THREE-MISSILE SA-11 TELAR

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